

Date: Mon, 26 Jul 93 18:13:47 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #903  
To: Info-Hams

Info-Hams Digest                      Mon, 26 Jul 93                      Volume 93 : Issue 903

Today's Topics:

(none)  
\* SpaceNews 26-Jul-93 \*  
20/20 and ham radio  
Alinco DJ580T woes and MCF...  
Amateur Radio public service  
beginner's tcvr's  
Broken Kenwood TS-120s, I need help!  
Create LP antenna opinion  
ITU Geneva, guest licence?  
Kenwood TS50  
online repeater directory???  
rsgb gb2rs news 25th july  
SCA Demodulator from SCS Radio Technology - Review  
TS50 Illegal!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: 26 Jul 93 01:55:01 GMT  
From: mulvey!rich@uunet.uu.net  
Subject: (none)  
To: info-hams@ucsd.edu

ryme@husky.bloomu.EDU writes:

> Subject: 2m repeaters  
> Status: ON 32768

> Mailed To: Info-Hams@UCSD.Edu  
>  
> Planning a trip to Cornell University and Ithaca College.  
> Does anyone have a listing of the 2m repeaters and local net freqs?  
> Hope to make some new contacts!  
> Thanks in advance,  
> 73's  
> John  
--

John:

According to the 92-93 ARRL directory:

146.610-  
146.775-  
147.090+  
147.165+

- Rich

--

Rich Mulvey  
rich@mulvey.com

Amateur Radio: N2VDS

787 Elmwood Terrace  
Rochester, NY 14620

-----  
Date: 26 Jul 93 13:45:11 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: \* SpaceNews 26-Jul-93 \*  
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0726  
\* SpaceNews 26-Jul-93 \*

BID: \$SPC0726

=====  
SpaceNews  
=====

MONDAY JULY 26, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

## \* EARTHQUAKES VIA SATELLITE \*

=====

Up to now, earthquakes have been poorly defined because pre-quake and post-quake studies at a large number of sites was simply not possible. But now with the advent of the ERS1 satellite, the situation has changed. ERS1 orbits at a height of 750 kms and views the world via a side scan synthetic aperture radar on a frequency of 5.36 GHz. The satellite was used to study the 28-Jun-92 earthquake centered in Landers, California.

ERS1 collected images of the Landers area 4 times in 1992. Once before the quake, and 3 times after it. Each pixel is 4 x 20 meters and the satellite receiver records both signal range and phase data of the echo returns from the ground. Despite the fact that no two orbits follow exactly the same track, it has proved possible to take the data from runs on 24 April pre-quake and, 7 August post-quake and put them together with a high degree of coherence.

To do this the operators reconstruct the phase of each pixel by minimizing the number of fringes at the corners of the picture, assuming that far field data in the picture corners will be least disturbed by the quake. They then eliminate the stereo path difference using a differential elevation model, and then calculate the interferometric fringes of the image at map coordinates, before resampling to improve overall signal to noise ratio and finally plotting what is basically a ground map covered in color coded fringes where the quake has shifted the surface between the pre-quake and post-quake records.

The result is a map of the Landers area overlaid by the "diffraction pattern" of colored fringes. Each fringe can reveal a shift as little as 28mm, that is the half wavelength of the radar. Naturally with such a precise record the middle of the pattern over the fault itself is blurred because even with the small pixel size at the ground of 4 x 20 meters, there has been a much larger ground shift than 28mm. Nevertheless, the area near the fault has obvious breaks in the surface so a record at that point is hardly necessary, and ERS1 provides a beautiful record out to far beyond the edges of the total affected area.

This ERS1 technique has a precision never seen before. Indeed geologists are now calling for records to be taken by ERS1 of all the world danger spots including volcanoes which swell just before erupting, glaciers having sudden spurts of movement which could foretell large killer landslides as have occurred in South America, and of course other active earthquake fault lines.

ERS1 scans the same patch of ground every 35 days. It does not require the positioning of ground stations in remote and often dangerous places. So we should hear more about its successes in the future. ERS1 was built and launched by the European Space Agency/Arianespace.

[Info via GM4IHJ]

★ UOSAT-OSCAR-11 STATUS ★

=====

The following is the On-Board Computer (OBC) status of UoSAT-OSCAR-11 as transmitted by the spacecraft on a frequency of 145.826 MHz and received by KD2BD in New Jersey on 24-Jul-93:

★★ UoSAT-OSCAR-11 OBC ★★

Diary Operating System V3.2

Date: 24 /7 /93 (Saturday)

Time: 0 :28 :24 UTC

Auto Mode is selected

Spin Period: + 1394

Z Mag firings: 0

+ SPIN firings: 0

- SPIN firings: 11

SEU count 23923

RAM WASH pointer at E56

WOD commenced 24 /7 /93 at 0 :0 :9

with channels 10 ,11 ,19 ,29 ,

Last Command: 109 to 0 , 0

Attitude control initiated, mode 1

Data collection in progress

UoSAT-OSCAR-11 was designed and built by the Spacecraft Engineering Research Unit of the Electronic and Electrical Engineering Department at the University of Surrey in England. It was launched on March 1, 1984 from Vandenberg Air Force Base in California. Its primary on-board computer is designed around an RCA 1802 microprocessor, and its controlling software is written in the "Forth" computer programming language.

★ MAILBAG ★

=====

The following message was received via packet radio from XE1RGL in Mexico, and took nearly two months to be received in New Jersey:

Hello John, my name is Guillermo/XE1RGL. I live in the city of Cuernavaca, which is located 50 miles south of Mexico city. I am sending you this message just to say that SpaceNews is a great information source for hams interested in ham satellite communications. So keep up with the good work and congratulations. Best wishes for you and yours de Guillermo/XE1RGL.

73's

Thanks for the kind words, Guillermo!

This week a letter was received from Joe Ellis, VK4AGL in Australia, along with a beautiful color photograph of Joe's ham station. Joe asks for help in obtaining slides or photographs of images taken by Voyager and Pioneer for an upcoming presentation to the Queensland Digital Group.

My suggestion would be to get in contact with the Jet Propulsion Laboratory, which is operated for NASA by the California Institute of Technology. The JPL is responsible for the design of the Deep Space Network which communicates with lunar, planetary, and interplanetary missions including the Viking-Mars, Mariner, Voyager, Galileo, and the Venus Orbiting Imaging Radar (VOIR) projects.

Their mailing address is:

JET PROPULSION LABORATORY  
Pasadena, California 91103  
U.S.A.

Rick, BY1QH, a junior engineering student and the public relations manager of the Tsinghua University Amateur Radio Club (TUARC) in Beijing, China, who is a faithful reader of SpaceNews would like to thank Mr. Ward French, KB1AJF, who kindly offered OSCAR-related books and suggestions in helping Rick and the TUARC to become active on Amateur satellites. Rick wishes to extend his deepest gratitude to Ward and others for their help, and looks forward to working the world through the OSCAR satellites in the near future.

★ THANKS! ★

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Thanks to all those who sent messages of appreciation regarding SpaceNews, especially:

BY1QH KB1ZK XE1RGL PA3AYK VK4CNQ VK6XY KA9ITZ

★ FEEDBACK/INPUT WELCOMED ★

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107  
UUCP : ...catfish.ocpt.ccur.com!ka2qhd!kd2bd  
PACKET : KD2BD @ NN2Z.NJ.USA.NA  
INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD  
Department of Engineering and Technology  
Advanced Technology Center  
Brookdale Community College  
Lincroft, New Jersey 07738  
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane, KD2BD \* /\ /\ \* Voice : 1-908-224-2948  
Advanced Technology Center |/\ /\ /\ | Packet : KD2BD @ NN2Z.NJ.USA.NA  
Brookdale Community College |/\ /\ /\ | Internet: kd2bd@ka2qhd.ocpt.ccur.com  
Lincroft, NJ 07738 \* /\ /\ \* Morse : -. -.. ..--- -... -..

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Date: 26 Jul 93 22:08:57 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: 20/20 and ham radio  
To: info-hams@ucsd.edu

>> ...segment on Barry Goldwater, K7UGA, and \*not once\* was  
any of his involvement with amateur radio discussed<<

I was kind of surprised at this also. Some time ago there was a thread here  
talking about famous people that were also hams. I thought I read that Hugh  
downs was a ham also.

>> I had to work pretty hard to discern the back end of a tribander in one  
of the outdoor shots <<  
You were sharper eyed than I. I musta blinked when that scenee was on  
;-)

73 de N5PWP  
\_\_mike

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Date: 26 Jul 93 13:09:45 GMT  
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu  
Subject: Alinco DJ580T woes and MCF...  
To: info-hams@ucsd.edu

In article <22vfr0\$iee@sun1.clark.net> andy@clark.net (Andrew M. Cohn) writes:

>charles he hemstreet (hemstree@cs.colostate.edu) wrote:

>

>: Helpful hint: Go gentle on the antenna bnc. I use an AEA Hot-rod for  
>: two meters, a Diamond RH-77ca for handi-dual-banding, and a magmount  
>: for mobiling around. The connector wasn't all that solid on my radio  
>: but my changing of antennas (three or four times a day) was what killed  
>: the internal antenna connections.

>

>My DJ580's BNC connector loosened up within one day after purchase, plus,  
>its internal solder joint came undone. After resoldering the connection  
>and re-assembling the case, I placed a ring of Super Glue around the  
>connector. It's not going anywhere now, regardless how many times I  
>switch antennas.

Note that the center contact of the BNC will spread with use and eventually become intermittant. I remember reading a NASA test report that suggested that BNCs are only good for about 100 connect/disconnect cycles before becoming unreliable. I've certainly gotten more use than that out of them, but it should still be remembered that the number of cycles that they can support is finite. So it may not be a great idea to glue the BNC in so that you can't replace it.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 26 Jul 93 13:49:24 GMT  
From: psinnntp!arrl.org@uunet.uu.net  
Subject: Amateur Radio public service  
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, ka6etb@GRAFex.Cupertino.CA.US (KA6ETB Steve Harding) writes:

>stocker@nssdca.gsfc.nasa.gov (ERICH FRANZ STOCKER) writes:

>> I question whether most hams are really trained properly for handling  
>> emergencies, at the tactical level or even H&W. To ensure that things work  
>> properly at the time of an emergency scenario driven training incorporating  
>> the elements of the "total emergency network" has to be done. Only a small  
>> number of hams actually take part in this type training. Many of the hams  
>> and official emergency agencies don't even properly communicate and  
>> coordinate.

> I largely agree with this. More training should be given for emergency  
> communications. I believe it should be a part of the licensing tests.

> However, during the Loma Prieta earthquake, we here in the area were flat  
> out swamped with H&W traffic. There were more than 10,000 pieces of traffic  
> that passed through the area during the week after the quake. Untrained  
> hams did yeoman service in helping us clear the backlog. All it takes is  
> a desire to help and an ability to ask questions and learn.

Yeah, ain't that the truth? So many times, loyal, devoted, trained ARES  
Members just aren't available when a real emergency pops up (jobs, travel,  
families, etc). Although training is important, it seems that most hams have  
the common horsesense to at least pull together and be organized and effective  
when the need arises.

>> Even the ham portion of the emergency network isn't properly exercised in  
>> many places...

It simply takes someone to plan and call out a drill. You could become an  
ARRL EC, DEC or AEC and do so, I imagine.

> But, I agree that in most cases, FD is nothing but a contesting party.

And a damn fun one, at that! 8-)

>> More hams should become part of the official ham emergency groups. More  
>> hams involved with these groups would mean a larger pool of trained  
>> people.

> More hams should become a part of the unofficial emergency group--NTS.  
> If, for no other reason, to learn how to handle emergency H&W traffic.

That sure is handy! Except that, in the emergencies I've seen personally,  
few of the participating amateurs were registered ARES Members or had ever  
been heard on the local NTS nets. I guess sometimes just using your noodle is  
sufficient.

CUL es 73 de BB

```

*****
Brian Battles, WS10      I Tel      203-666-1541, ext 222 I  "Radio amateurs
QST Features Editor     I Fax      203-665-7531          I  do it with
ARRL HQ                 I Internet bbattles@arrl.org      I  great frequency"
Newington, CT USA       I Amprnet  ws10@ws10.ampr.org      I
*****

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Date: 26 Jul 93 14:35:56 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!newsrelay.iastate.edu!news.iastate.edu!  
kenman@network.ucsd.edu  
Subject: beginner's tcvr's  
To: info-hams@ucsd.edu

A while back there was a posting of four or five used tcvr's that were listed as good choices for new hams. I lost the copy, could someone e-mail the file to me? Thanks.

Kenman@iastate.edu

--

Ken Anderson (Kenman@iastate.edu)  
126 Soil Tilth Bldg. (515)294-8996  
Iowa State University  
Ames, Iowa 50011

-----  
Date: Sun, 25 Jul 93 05:50:37 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!hellgate.utah.edu!fcom.cc.utah.edu!  
cosmic.physics.utah.edu!levin@network.  
Subject: Broken Kenwood TS-120s, I need help!  
To: info-hams@ucsd.edu

Hi,

I am hoping that someone here can help me with a radio problem.

I have a Kenwood TS-120s that I bought used from someone. The radio has worked fine for the last few days but is now having a problem.

There is no audio and no frequency is displayed on any band. Instead, the display shows only 2 periods. I have checked all settings including the fix button and everything is set correctly. Has anyone else ever had this problem with the 120s? If so how do I fix it?

Thanks.

Chris Levin  
levin@cosmic.physics.utah.edu

-----  
Date: Sat, 24 Jul 93 18:49:30 PDT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!wupost!  
csus.edu!netcom.com!netcomsv!micromed!brett@network.ucsd.edu  
Subject: Create LP antenna opinion  
To: info-hams@ucsd.edu

Someone recently asked about opinions on the wide range Create Log  
Periodic antenna. It is a great antenna if you dont mind using a  
directional antenna and you live in a friendly RF environemt. I say this  
because the antenna gain of this antenna will also amplify the unwanted  
pager and FM broadcast stations. So if intermod is not a problem, then  
this is a great antenna, otherwise, you may want to consider soemthing  
different. Personally, I think the best way to go is to get separate  
directional antennas for each band you are interested in. This method  
introduces some connection complications, but for a good signal, it can't  
be beat.

Brett N70LQ@N6LDL.CA

--  
brett@micromed.com (brett miller)

-----  
Date: 26 Jul 93 06:24:33 GMT  
From: pa.dec.com!nntpd2.cxo.dec.com!nntpd.lkg.dec.com!ryn.mro4.dec.com!  
helles.unt.dec.com!janix.pcs.dec.com!pcs.dec.com!ajk@decwrl.dec.com  
Subject: ITU Geneva, guest licence?  
To: info-hams@ucsd.edu

I have got that information from elsewhere, in the meantime. Thanks for any  
research that I might have initiated by my request.

73,

--  
Dr. Anton J. Kuchelmeister, DK5TL  
ajk@pcs.dec.com

Digital-PCS Munich Germany

-----  
Date: 26 Jul 93 06:49:12 GMT

From: sgigate!sgiblab!munnari.oz.au!bruce.cs.monash.edu.au!trlluna!titan!rhea!handers@RUTGERS.EDU  
Subject: Kenwood TS50  
To: info-hams@ucsd.edu

Apologies if this has already appeared, but my last posting seems to have fallen into a "black hole!" Anyway, here goes again;  
I wonder if anyone can confirm or deny the apparently rather poor 3rd order transmit IMD products that were reported on this radio in a "Rad Comm" review recently. They claimed a measurement of -24dB on some bands to a worst case of -16 dB on 14 MHz! I'm just wondering if ALL TS50's are like this, or whether it was a faulty unit. I can't even check the specs on the "glossy brochure, as no-one has any brochures it seems. Radios yes, brochures no! Thanks..  
Howard VK3AYV

-----  
Date: 25 Jul 1993 03:54:28 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!uwm.edu!csd4.csd.uwm.edu!pachner@network.ucsd.edu  
Subject: online repeater directory???  
To: info-hams@ucsd.edu

Is there an online repeater directory?

--  
Thomas Jay Pachner --- Music Major, Bassist, Gamer, and Amateur Operator  
University of Wisconsin - Milwaukee - pachner@csd4.csd.uwm.edu  
Appreciator of all kinds of true music (sorry rap and country)  
Amateur Call Sign: waiting since July 10 (it's worse than tax returns)

-----  
Date: Mon, 26 Jul 1993 11:02:49 GMT  
From: pipex!uknet!brunel!xxxxajh@uunet.uu.net  
Subject: rsgb gb2rs news 25th july  
To: info-hams@ucsd.edu

In article <743500223snz@tedb.demon.co.uk> ted@tedb.demon.co.uk (Edward Batts) writes:

>Good morning. It's Sunday the 25th of July and here is the GB2RS news  
>broadcast, prepared by the Radio Society of Great Britain.

Some stuff.

>We know of five rallies taking place today Sunday the 25th:

Note that this article was posted on Sat 24 july. Most of us don't read it on Saturdays, so what on earth is the point of posting information about incidents taking place on Sunday when we will not read about it until Monday morning at the earliest?

Regards

Alan Holmes G4CRW

-----  
Date: 26 Jul 93 15:10:19 GMT  
From: ogicse!flop.ENG.RST.EDU!gaia.ucs.orst.edu!umn.edu!csus.edu!netcom.com!  
joe@network.ucsd.edu  
Subject: SCA Demodulator from SCS Radio Technology - Review  
To: info-hams@ucsd.edu

I recently ordered and received three SCA demodulator boards from SCS Radio Technology after noticing an advertisement in Radio News. Bruce Elving's SCA design uses a CA3089 IF/detector chip and a PLL (I designed his XR2211 PLL SCA demodulator) SCA. Bruce also sells FM receivers modified with the boards.

What was interesting about the SCS SCA board design, while it uses a CA3089E IF chip also, a multipole filter in front of the 3089 decreases main channel crosstalk interference (by 60 dB). David's board is of excellent construction, with no jumpers and small size to be inserted in an FM receiver's FM detector stage (before deemphasis attenuates the SCA signals).

Anyway, three pretuned boards are available from SCS, 57Khz, 67Khz, and 92Khz - \$20.00 each, \$60 plus \$6.00 P&H for all three. I am satisfied with the design and construction of each board. One area of modification I would make is to monitor the SCA signal's multipath and level with an x-y monitor. Use pin 13 of the 3089 chip for a signal level (scope y) output and pin 7 for the y axis output. Of course levels must be set to set vertical and horizontal traces. A flat vertical line, max amplitude, is the ideal signal for tuning. A "wavy" line illustrates multipath. This is a great tool for tuning FM signals...

SCS's Address and Phone Number:

SCS Radio Technology  
5742 Fair Oak

Springfield, MO, 65810

Phone:

417-881-8401

He (Dave Jackway) takes checks only at present. While his focus is large-volume customers, he will sell to the small customer...

(I have no affiliation with SCS, only as a satisfied customer)

--Joe Jesson

--

-----  
Joseph Jesson   joe@netcom.com   Day (312) 856-3645   Eve (708) 356-6817  
21414 W. Honey Lane, Lake Villa, IL, 60046  
-----

-----  
Date: 26 Jul 93 13:21:50 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: TS50 Illegal!  
To: info-hams@ucsd.edu

Jim WB1B said...

>>In article <18016@news.duke.edu> jbs@ee.ee.duke.edu (Joe B. Simpson) writes:  
>>In article <1993Jul21.120648.20463@hemlock.cray.com> dadams@cray.com writes:  
>>>

>>>I wish the rule were ammended to allow licenced Amateurs the privelege to  
>>>use 11 meters (as secondary users, of course) also allowing them to

>>

>>Because the FCC correctly assumes that the hams would not stay within the  
>>4 watt output limit.

>>

>

>That's because hams would correctly assume that they would need the full  
>100 watts just to be competitive with the locals! (not to mention an  
>echo mike and a sound effects box). :-)

Assuming you'd use AM on CB as most do, I think you'll find that you'll get only about 40 watts carrier out of a typical "100 watt" HF rig. All HF rigs I've seen in the last 20 years or so generate AM by inserting the carrier back into a SSB signal, i.e., this isn't the efficient high level modulation used in homebuilt 75 AM rigs or broadcast transmitters.

I have no idea what 40 watts carrier would be in PEP power, since PEP is such a silly way to measure emission types that have a carrier like AM, CW, and FM. Oh, by the way, last time I checked (which was years ago), the CB power limits were 5 watts DC input to the final, and 4 watts carrier output. I wonder how many of the Class C PAs used in CBs are 80 percent efficient...

73,

Scott W01G

=====

Scott Sminkey	email: sasminkey@eng.xyplex.com
Software Sustaining Engineering	voice: 508 952-4792
Xyplex, Inc.	fax: 508 952-4887
295 Foster St.	(Opinions, comments, etc. are mine,
Littleton, MA 01460	not Xyplex's...)

-----  
Date: 26 Jul 93 14:30:08 GMT  
From: ogicse!uwm.edu!spool.mu.edu!darwin.sura.net!rsg1.er.usgs.gov!  
dgg.cr.usgs.gov!bodoh@network.ucsd.edu  
To: info-hams@ucsd.edu

References <1786@arrl.org>, <23JUL199307025189@nssdca.gsfc.nasa.gov>,  
<CAq72H.4r0@dartvax.dartmouth.edu>ov  
Subject : Re: STILL waiting for your license? Read this and weep!

In article <23JUL199307025189@nssdca.gsfc.nasa.gov>  
stocker@nssdca.gsfc.nasa.gov (ERICH FRANZ STOCKER) writes:

|>  
|> This process at all levels is still !!!! TOO !!!! manual. It appears as  
|> if the belief is that a manual process is the only way to ensure accuracy  
|> and validity. Just because we haven't automated the WHOLE process before  
|> doesn't mean we can't start doing it now. Very few of the type of people  
|> performing VE service don't have access to a computer. Paper should be  
|> involved only because of the FCC and we should really lobby to automate  
|> their part so we can use EDI when dealing with them.  
|>

--

In responses that I've seen from the ARRL, they state that the FCC plans on implementing electronic filing sometime in the next year - and that the ARRL supports it. Hopefully this will address some or all of the shortcomings in the current system...

```
+++++
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, N0X?? (in the mail) +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
+
+ "Welcome back my friends to the show that never ends!" EL&P
+
+++++
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End of Info-Hams Digest V93 #903

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